

SEQUENCE LISTING

<110> Akzo Nobel, NV  
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Boender, Pieter Jacob  
Hellings, Jan Albert

<120> Hepatitis Y Virus

<130> 9250-37

<140> US 09/868,553

<141> 2001-06-18

<150> PCT/EP99/10179

<151> 1999-12-16

<150> EP98204313.5

<151> 1998-12-18

<150> EP99200167.7

<151> 1999-01-20

<160> 26

<170> PatentIn version 3.1

<210> 1

<211> 304

<212> DNA

<213> Unknown Organism

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atgtccagcg tggccaaagc cactgcccgg cgcgttggcc gactggacgc ccaggcgctg 180  
caaagccaag gcgtgcagac gctgctcgag gcccaccgca actggagcaa gcccagagctg 240  
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gatc 304

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caccgaccaa tccacccgca cccgtaccgg cgaagaactc gacgctgccg tcatcgacgc 180  
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tctgcacgcc ttggtttgca 20

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18

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<400> 10

gccgggaata tgggcctt

18

<210> 11

<211> 100

<212> PRT

<213> Unknown Organism

<400> 11

Ser Gln Ala Thr Ala Arg Arg Thr Tyr Ala Glu Arg Ile Arg Arg Arg  
1 5 10 15

Thr Ala Arg Pro Arg Gln Thr Ala Pro Val Arg Gln Ala Val Arg Gly  
20 25 30

Val Gln Pro Arg Leu Tyr Arg His Val Gln Arg Gly Gln Ser His Cys  
35 40 45

Pro Ala Arg Trp Pro Thr Gly Arg Pro Gly Ala Ala Lys Pro Arg Arg  
50 55 60

Ala Asp Ala Ala Arg Gly Pro Pro Gln Leu Glu Gln Ala Arg Ala Val  
65 70 75 80

Val Arg His Arg Ala Arg Arg Gln Gly Leu His Leu Arg Leu Leu Pro  
85 90 95

Asp Arg Thr Gly  
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<210> 12

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<223> x represents any nucleotide

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<223> x represents any nucleotide

<400> 12

Ile Thr Ser Asn Cys Pro Thr Asn Val Arg Xaa Ala Tyr Ser Ser Thr  
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Asn Cys Thr Pro Ser Thr Asn Ser Ala Cys Pro Ala Ser Cys Pro Arg  
20 25 30

Ser Ser Thr Ala Pro Ile Pro Ala Cys Pro Ala Trp Pro Lys Pro Leu  
35 40 45

Pro Gly Ala Leu Ala Asp Trp Thr Pro Arg Arg Cys Lys Ala Lys Ala  
50 55 60

Cys Arg Arg Cys Ser Arg Pro Thr Ala Thr Gly Ala Ser Pro Ser Cys  
65 70 75 80

Gly Thr Pro Ser Ser Ala Pro Ala Arg Phe Thr Pro Thr Ile Thr Thr  
85 90 95

Xaa Pro His Trp Ile  
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<210> 13

<211> 101

<212> PRT

<213> Unknown Organism

<400> 13

Asp His Lys Gln Leu Pro Asp Glu Arg Thr Leu Ser Val Phe Val Asp  
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1                      5                                      10                                      15  
 Glu Leu His Ala Leu Asp Lys Gln Arg Leu Ser Gly Lys Leu Ser Glu  
                             20                                      25                                      30  
 Glu Phe Asn Arg Ala Tyr Thr Gly Met Ser Ser Val Ala Lys Ala Thr  
                             35                                      40                                      45  
 Ala Arg Arg Val Gly Arg Leu Asp Ala Gln Ala Leu Gln Ser Gln Gly  
                             50                                      55                                      60  
 Val Gln Thr Leu Leu Glu Ala His Arg Asn Trp Ser Lys Pro Glu Leu  
                             65                                      70                                      75                                      80  
 Trp Tyr Ala Ile Glu Arg Ala Gly Lys Val Tyr Thr Tyr Asp Tyr Tyr  
                             85                                      90                                      95  
 Leu Thr Ala Leu Asp  
                             100

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 Ala Arg Trp Arg Thr Thr Ala Arg Ala Cys Ser Ser Cys Gly Gly Pro  
                             20                                      25                                      30  
 Arg Ala Ala Ser Ala Arg Leu Gly Phe Ala Ala Pro Gly Arg Pro Val  
                             35                                      40                                      45  
 Gly Gln Arg Ala Gly Gln Trp Leu Trp Pro Arg Trp Thr Cys Arg Tyr  
                             50                                      55                                      60

Arg Arg Gly Xaa Thr Pro Arg Thr Ala Cys Arg Thr Gly Ala Val Cys  
65 70 75 80

Arg Gly Arg Ala Val Arg Arg Arg Ile Arg Ser Ala Tyr Val Arg Arg  
85 90 95

Ala Val Ala Cys Asp  
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<210> 15

<211> 101

<212> PRT

<213> Unknown Organism

<400> 15

Ile Gln Cys Gly Gln Val Val Ile Val Gly Val Asn Leu Ala Gly Ala  
1 5 10 15

Leu Asp Gly Val Pro Gln Leu Gly Leu Ala Pro Val Ala Val Gly Leu  
20 25 30

Glu Gln Arg Leu His Ala Leu Ala Leu Gln Arg Leu Gly Val Gln Ser  
35 40 45

Ala Asn Ala Pro Gly Ser Gly Phe Gly His Ala Gly His Ala Gly Ile  
50 55 60

Gly Ala Val Glu Leu Leu Gly Gln Leu Ala Gly Gln Ala Leu Phe Val  
65 70 75 80

Glu Gly Val Gln Phe Val Asp Glu Tyr Ala Gln Arg Thr Phe Val Gly  
85 90 95

Gln Leu Leu Val Ile  
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<210> 16

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<222> (9)..(9)

<223> x represents any nucleotide

<400> 16

Ser Ser Ala Val Arg Xaa Xaa Ser Xaa Val Xaa Thr Leu Pro Ala Arg  
1 5 10 15

Ser Met Ala Tyr His Ser Ser Gly Leu Leu Gln Leu Arg Trp Ala Ser  
20 25 30

Ser Ser Val Cys Thr Pro Trp Leu Cys Ser Ala Trp Ala Ser Ser Arg  
 35 40 45

Pro Thr Arg Arg Ala Val Ala Leu Ala Thr Leu Asp Met Pro Val Xaa  
 50 55 60

Ala Arg Leu Asn Ser Ser Asp Ser Leu Pro Asp Arg Arg Cys Leu Ser  
 65 70 75 80

Arg Ala Cys Ser Ser Ser Thr Asn Thr Leu Ser Val Arg Ser Ser Gly  
 85 90 95

Ser Cys Leu Xaa Pro  
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<210> 17

<211> 376

<212> DNA

<213> Unknown Organism

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cgctgggatg atcacaagca actgccggac gaaaaaaccc tgcaggtctt cgccagcgaa	180
ctgcatggcc ttaaccagca gcgcctgtcc ggcaagctct ccgaagaact caaccgcgcc	240
tataccggca tgtccagcgt ggtcaaagcc actgcccggc gcgttggccg actggacgcc	300
caggcgctgc aaaccaaggc gtgcggacgc tgctcgaggc ccaccgcaac tggagcaagc	360
ccgagctgtg gtacgc	376

<210> 18

<211> 378

<212> DNA

<213> Unknown Organism

<400> 18

cgcccgggca ggtctgttca tcctcgtcac cttcgtcgcc ccgatcggta ccatgctgtg	60
gcgacgcgtg catcacccga ccgtggccga gctgattccc ctgaccctgg ccgagctcga	120
acgctgggat gatcacaagc aactgccgga cgaaaaaacc ctgcaggtct tcgccagcga	180

actgcatggc cttaccagc agcgctgtc cggcaagctc tccgaagaac tcaaccgcgc	240
ctataccggc atgtccagcg tgggtcaaagc cactgcccgg cgcgttggcc gactggacgc	300
ccaggcgctg caaagccaag gcgtgcggac gctgctcgag gcccaccgca actggagcaa	360
gcccgcgctg tggtagcg	378

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<212> DNA

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<220>

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<222> (216)..(216)

<223> n represents any nucleotide

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ttcgtcgccc cgatcggtag gatcctgtgg cgcagcgtgc atcaccgcac cgtggccgag	120
ctgattcccc tgaccctggc cgagtcgaac gctgggatga tcacaagcaa ctgccggacg	180
aaaaaacctt gcaggtcttc gccagcgaac tacntncctt aaccagcagc gcctgtccgg	240
caactctccg aagaactcaa ccacgcctat accggcatat cctgcgtgct caaatttact	300
gcccggcgcg ttggccgact ggacgcccag gcgctgcaaa gccaaggcgt gcagacgctg	360
ctcgaggccc accgcaactg gagcaagccc gagctgtggt acgc	404

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<211> 366

<212> DNA

<213> Unknown Organism

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 ggcgcgttgg ccgactggac gcccaggcgc tgcaaagcca aggcgtgcag acgctgctcg 180  
 aggccaccg caactggagc aagcccgagc tgtggtacgc catcgagcgc gccggcaagg 240  
 ttacaccta cgattactac ctgaccggac tgcattctga gatctatact gactaatccc 300  
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<210> 21  
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 <212> DNA  
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caccttgta tccctgacca ccagcgaagc cggccaagcc gccagcgccc gtcgcaagaa 180  
gtgcgtcgcc gcctttctgt tcgtggtgcc actgctgctg ttcattctcg tcaccttcgt 240  
cgccccgatc ggtaccatgc tgtggcgag cgtgcatcac ccgaccgtgg ccgagctgat 300  
tcccctgacc ctggccgagc tcgaacgctg ggatgatcac aagcaactgc cggacgaaaa 360  
aaccctgcag gtcttcgcca gcgaactgca tggccttaac cagcagcgcc tgtccggcaa 420  
gctctccgaa gaactcaacc gcgcctatac cggcatgtcc agcgtggtca aagccactgc 480  
ccggcgcgtt ggccgactgg acgcccaggc gctgcaaagc caaggcgtgc agacgctgct 540  
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<210> 22

<211> 513

<212> DNA

<213> Unknown Organism

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ctgcctttct cttcgtggtg ccgctgctgc tgttcatcat cgtcaccttc gtcgccccga 180  
tcggtaccat gctgtggcgc agcgtgcac acccgaccgt ggccgaactg attcctctga 240  
ccctggccga actcgagcgc tgggacgac acaagcaact gcccgcgaa cgtacgctga 300  
gcgtattcgt cgacgaactg cagccctcg acaaacagcg cctgtccggc aagctgtccg 360  
aggagttcaa ccgcgccctat accggcatgt ccagcgtggt caaagccact gcccggcgcg 420  
ttggccgact ggacgcccag gcgctgcaaa gccaaggcgt gcagacgctg ctcgagggcc 480  
accgcaactg gagcaagccc gagctgtggt acg 513

<210> 23

<211> 415

<212> DNA

<213> Unknown Organism

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ggcgcgttgg ccgactggac gcccaggcgc tgcaaagcca aggcgtgcag acgctgctcg	180
aggcccaccg caactggagc aagcccgagc tgtggtacgc catcgagcgc gccggcaagg	240
tttacaccta cgattactac ctgaccgcac tggatctgga gatgcacccc gacgagggca	300
tccaggtgcg ccaggacacg cagatctatc tgcagctgta ttccaagacc ctgaacatgg	360
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<211> 530

<212> DNA

<213> Unknown Organism

<220>

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<222> (452)..(452)

<223> n represents any nucleotide

<400> 24

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ggcgcgttgg ccgactggac gcccaggcgc tgcaaagcca aggcgtgcag acgctgctcg	180
agggccaccg caactggagc aagccccgagc tgtggtacgc catcgagcgc gccggcaagg	240
tttacaccta cgattactac ctgaccgcac tggatctgga gatgcacccc gacgagggca	300
tccagacctg cccggggcggc cgctcgaccc ctatagttag taatcccgcg gccatggcgg	360
ccgggagcat gcgacgtcgg gcccaatacg ccctatagtg agtcgtatta aaattcactg	420
gccgtcgttt tacaangtng tgaatggnaa ancctggcgt tacccaactt aatcgccctg	480
cagcacatcc ccctttcgcc agctggcgta atagcgaaga ggcccgcacc	530

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<211> 319

<212> DNA

<213> Unknown Organism

<400> 25

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ggcgcgttgg ccgagtggac gcccaggcgc tgcaaagcca aggcgtgcag agcgtgctc	180
gaggccacc gcaactggag caagccccgag ctgtggtacg ccatcgagcg cgccggcaag	240
gtttacacct aggattacta cctgaccgca ctggatctgg agatgcaccc cgacgagggc	300
atccagacct gcccggggcg	319

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<211> 368

<212> DNA

<213> Unknown Organism

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atgtccagcg tggccaaagc cactgcccgg cgcgttgccc gactggacgc ccaggcgtg	180
caaagccaag gcgtgcagac gctgctcgag gccaccgca actggagcaa gcccgagctg	240
tggtacgcca tcgagcgcgc cggcaagggtt tacacctacg attactacct gaccgcactg	300
gatctggaga tgcaccccga cgagggcatc caggcgcgcc aggacacgca gatctacctg	360

cccgggcg

368